

**MeadWestvaco Oxford Corp.
Oxford County
Rumford, Maine
A-214-70-D-A**

**Departmental
Findings of Fact and Order
Part 70 and Chapter 115
Air Emission License
Amendment #2**

After review of the Part 70 License amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A, Section 344 and Section 590, the Department finds the following facts:

I. Registration

A. Introduction

FACILITY	MeadWestvaco Oxford Corporation (The Mill)
LICENSE NUMBER	A-214-70-D-A
LICENSE TYPE	Part 70 Minor Modification
NAICS CODES	322121
NATURE OF BUSINESS	Pulp & Paper Mill
FACILITY LOCATION	Rumford, Maine
DATE OF INITIAL LICENSE ISSUANCE	July 30, 2003
DATE OF AMENDMENT ISSUANCE	April 12, 2004
LICENSE EXPIRATION DATE	July 30, 2008

B. New Emission Equipment

The Mill has proposed adding the following new emission units:

Equipment	Maximum Capacity (MMBtu/hr)	Maximum Firing Rate (scf/hr)	Fuel Type, % sulfur
NG Unit 2	9.62	9,340	Natural Gas, negligible
NG Unit 3	5.51	5,353	Natural Gas, negligible
NG Unit 4	5.51	5,353	Natural Gas, negligible
NG Unit A	2.05	1,992	Natural Gas, negligible
NG Unit C	6.41	6,225	Natural Gas, negligible
NG Unit D	6.32	6,136	Natural Gas, negligible
NG Unit E	5.13	4,980	Natural Gas, negligible
NG Unit F	4.62	4,482	Natural Gas, negligible
NG Unit G	6.41	6,225	Natural Gas, negligible
NG Unit H	14.12	13,695	Natural Gas, negligible
NG Unit K	7.69	7,470	Natural Gas, negligible
NG Unit L	6.32	6,136	Natural Gas, negligible

C. Previously Permitted Heaters

The Mill previously permitted NG Units 1, B, I, and J. Emission limits for these units were based on AP-42 emission factors. The Mill has provided documentation in which the supplier guarantees lower emission limits for these units. Therefore, the Mill has proposed limiting the emissions from these units to the supplier guaranteed not to exceed levels.

D. Application Classification

The modification of a major source is considered a major modification based on whether or not expected emission increases exceed the “Significant Emission Increase Levels” as given in Maine’s Air Regulations.

The emission increases are determined by subtracting the average actual emissions of the two calendar years preceding the modification from the maximum future license allowed emissions for any equipment affected by the change. In this case, the Mill is proposing the installation of new equipment and therefore there were no emissions from previous years and the permitted emissions from these units are compared directly to the Significance Level.

<u>Pollutant</u>	<u>New Equipment (TPY)</u>	<u>Sig. Level</u>
PM	1.0	25
PM ₁₀	1.0	15
SO ₂	0.1	40
NO _x	20.1	40
CO	20.1	100
VOC	1.1	40

This modification is determined to be a minor modification and has been processed as such.

II. EMISSION UNIT DESCRIPTION

A. Building Air Heaters

The Mill proposes to install four (12) natural gas fired heaters to replace steam coil heaters. It is anticipated that these air heaters will be operated from October 1 to May 1 to provide building heat during the cold weather months.

The Mill included in their amendment application dated March 3, 2004 a Best Available Control Technology (BACT) analysis. Due to the small size of the units and the fuel for which they were designed to fire, BACT was determined to be good combustion control, the use of natural gas fuel and the emission limitations listed in the Order section of this amendment.

Streamlining

Particulate Matter

The Mill accepts streamlining for particulate matter requirements. Chapter 103 of the Department's regulations and Best Available Control Technology (BACT) requirements are applicable. The BACT particulate matter limit is more stringent. Therefore, only the more stringent BACT particulate matter limit is included in this license.

Periodic Monitoring

Periodic monitoring shall consist of recordkeeping which includes records of amounts (scf) of fuel fired.

Based on best management practices and the type of fuel for which the air heaters were designed, it is unlikely that they will exceed the opacity or pollutant emission limits. Therefore, periodic monitoring by the source for these pollutants is not required. However, neither the EPA nor the State is precluded from requesting the Mill to perform testing and may take enforcement action for any violations discovered.

B. Facility Emissions

Total Allowable Annual Emission for the Facility
(used to calculate the annual license fee)

	PM	PM₁₀	SO₂	NO_x	CO	VOC	Cl₂	ClO₂
Power Boiler #3	65.7	65.7	341.6	525.6	262.8	19.7	-	-
Power Boiler #5	65.7	65.7	341.6	525.6	262.8	19.7	-	-
Power Boiler #6	82.8	82.8	772.6	1,655.6	1,090.0	22.1	-	-
Power Boiler #7	82.8	82.8	772.6	1,655.6	1,090.0	22.1	-	-
Lime Kiln	105.1	105.1	100.7	227.8	170.8	8.8	-	-
Recovery Boiler	379.7	284.7	903.6	941.7	972.4	16.2	-	-
Smelt Tank C	70.1	69.2	24.1	-	-	-	-	-
Dryers	15.2	15.2	0.1	19.6	2.7	0.7	-	-
Air Heaters	1.9	1.9	0.1	38.1	38.1	2.1	-	-
Cogen Emerg Gen	0.1	0.1	0.1	1.6	0.4	0.1	-	-
R15 Emerg Gen	0.1	0.1	0.1	1.4	0.3	0.1	-	-
Mill Emerg Gen	0.2	0.2	0.1	4.4	1.2	0.1	-	-
Fire Pump	0.1	0.1	0.1	2.5	0.5	0.2	-	-
Bleach Plant	-	-	-	-	-	-	13.1	13.1
Total TPY	869.5	773.6	3,257.4	5,572.5	3,892.0	111.9	13.1	13.1

III. AIR QUALITY ANALYSIS

The Mill previously submitted an ambient air quality analysis demonstrating that emissions from the facility, in conjunction with all other sources, do not violate ambient air quality standards. An additional ambient air quality analysis is not required for this amendment.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that emissions from this sources:

- will receive Best Practical Treatment;
- will not violate applicable emissions standards
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-214-70-D-A subject to the conditions found in Air Emission License A-214-70-A-I, amendment A-214-70-B-A, and in addition to the Conditions listed below.

For each standard and special condition which is state enforceable only, state-only enforceability is designated with the following statement: **Enforceable by State-only.**

The following shall replace Condition (59)(B) of Air Emission License A-214-70-B-A:

(59) Air Heaters

B. Emissions shall not exceed the following [MEDEP Chapter 140, BACT]:

Equipment		PM	PM ₁₀	NO _x	CO	VOC
Unit 1	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.65	0.65	0.03
Unit B	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.07	0.07	1.41	1.41	0.08
Unit I	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.04	0.04	0.77	0.77	0.04
Unit J	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.06	0.06	1.28	1.28	0.07

The following are new Conditions:

(61) Additional Air Heaters

- A. Units 2, 3, 4, A, C, D, E, F, G, H, K, and L shall fire only natural gas. Records of annual fuel use shall be kept. [MEDEP Chapter 140, BACT]

B. Units 2, 3, 4, A, C, D, E, F, G, H, K, and L shall each not exceed an operational limit of 5,040 hours per year. Compliance shall be demonstrated by records of the first and last operating days in each heating season. [MEDEP Chapter 140, BPT]

C. Emissions shall not exceed the following [MEDEP Chapter 140, BACT]:

Equipment		PM	PM₁₀	NO_x	CO	VOC
Unit 2	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.05	0.05	0.96	0.96	0.05
Unit 3	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.55	0.55	0.03
Unit 4	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.55	0.55	0.03
Unit A	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.01	0.01	0.21	0.21	0.01
Unit C	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.64	0.64	0.03
Unit D	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.63	0.63	0.03
Unit E	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.51	0.51	0.03
Unit F	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.02	0.02	0.46	0.46	0.02
Unit G	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.64	0.64	0.03
Unit H	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.07	0.07	1.41	1.41	0.08
Unit K	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.04	0.04	0.77	0.77	0.04
Unit L	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.03	0.03	0.63	0.63	0.03

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- D. Visible emissions from Units 2, 3, 4, A, C, D, E, F, G, H, K, and L shall each not exceed 10% opacity on a six (6) minute block average, except for no more than one (1) six (6) minute block averages in a continuous 3-hour period. [MEDEP Chapter 140, BACT]

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2004.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAWN R. GALLAGHER, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

The term of this amendment shall be concurrent with the term of Air Emission License A-214-70-A-I.

Date of initial receipt of application: 3/3/04

Date of application acceptance: 3/4/04

Date filed with the Board of Environmental Protection: _____

This Order prepared by Lynn Ross, Bureau of Air Quality.